

WE CLAIM:

1. An audio adapter used with a vehicle audio system including a power amplifier, a head unit serving as a tuner, and a plurality of loud speakers provided in a vehicle compartment, the audio adapter comprising a transformer provided for every one channel between a non-genuine head unit and the power amplifier when the head unit is replaced by the non-genuine head unit, the transformer matching an output impedance with an input impedance between the non-genuine head unit and the power amplifier, the transformer adjusting an output level of the non-genuine head unit to an input level of the power amplifier.

2. An audio adapter according to claim 1, wherein the loud speakers include first and second loud speakers including respective transformers having respective secondary windings connected in series or parallel with each other, and which further comprises an electric circuit for generating a mixed signal of a first loud speaker signal and a second loud speaker signal by connecting the secondary windings of the transformers of the first and second loud speakers in series or parallel with each other so that a center speaker signal and a woofer signal are generated.

3. An audio adapter according to claim 1, wherein the loud speakers include a first loud speaker and a second loud speaker, and which further comprises a transformer having a primary side including two windings and a secondary side including one winding,

the two windings of the primary side serving as transformer inputs of the first and second loud speakers respectively, the winding of the secondary side serving as a mixed signal output of first and second loud speaker signals.

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4. An audio adapter according to claim 2, wherein the loud speakers include a first loud speaker and a second loud speaker, and which further comprises a transformer having a primary side including two windings and a secondary side including one winding,
- 10 the two windings of the primary side serving as transformer inputs of the first and second loud speakers respectively, the winding of the secondary side serving as a mixed signal output of first and second loud speaker signals.

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